20070907.ba v04_n088.bam.20070907

>From ???@??? Fri Sep  7 22:51:12 2007 -0500
Date: Fri,  7 Sep 2007 22:50:01 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 4088
Message-Id: <20070908035002.7BF5232814C@srvr1.theporch.com>

## BOATANCHORS Digest 4088

Topics covered in this issue include:

1) ACR-5 Mobile
   by Al Klase <al@ar88.net>
2) Re: [Milsurplus] ACR-5 Mobile
   by Jack Antonio <scr287@sbcglobal.net>
3) Re: ARC-5 Mobile
   by "David Stinson" <arc5@ix.netcom.com>
4) Two RF amp radios
   by Jsehring <jsehring@siouxvalley.net>
5) Re: [Milsurplus] ACR-5 Mobile
   by WA5CAB@cs.com
6) Re: Two RF amp radios
   by WA5CAB@cs.com
7) Re: [Milsurplus] ACR-5 Mobile
   by Al Klase <al@ar88.net>
8) Re: [Milsurplus] ARC-5 Mobile
   by "Brian A Clarke" <brianclarke01@optusnet.com.au>
9) Re: ACR-5 Mobile
   by "RJ Mattson" <rjmattson@hvi.net>
10) Re: [Milsurplus] ARC-5 Mobile
   by Al Klase <al@ar88.net>
11) Re: [Milsurplus] ARC-5 Mobile
   by "Brian A Clarke" <brianclarke01@optusnet.com.au>
12) Re: [Milsurplus] ARC-5 Mobile
   by Scott Robinson <spr@earthlink.net>
13) Re: ARC-5 Mobile
   by "David Stinson" <arc5@ix.netcom.com>
14) Re: [Milsurplus] ARC-5 Mobile
   by WA5CAB@cs.com
15) Re: Two RF amp radios
   by "Arden Allen" <gumbear@pacbell.net>

----------------------------------------------------------------------
Message-ID: <46E18949.9080906@ar88.net>
Date: Fri, 07 Sep 2007 13:24:25 -0400
From: Al Klase <al@ar88.net>

MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: ACR-5 Mobile
Content-Type: multipart/mixed;
 boundary="------------010409020908040100050309"

This is a multi-part message in MIME format.
--------------010409020908040100050309
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Troops,

I'm starting to contemplate taking a stock AN/ARC-5 mobile so people can see and hear it.  This would be a single transmitter and receiver, probably on 75 meters, plus an MD-7 modulator, RE-2 antenna relay, and control boxes as needed.  I have all of above, but need a single transmitter rack and mount, MT-68/69.

Does anyone know the actual output of the TX?  Manual sez 15 watts carrier, but I suspect a pair of 1625's with 550 on the plates should do at least twice that.

Also, there the issue of primary power.  I'm looking for a good way to get 28 volts at about 10 amps from 14 volts with enough reserve to spin up the TX dyno.  I don't suppose anyone has 12/14 volt dynomoters for MD-7 and RX lying around?

Any help or suggestions appreciated.

Regards,
Al

--
Al Klase - N3FRQ
Flemington, NJ
http://www.skywaves.ar88.net/

--------------010409020908040100050309
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---            *
*     This post contains a forbidden message format       *
*  (such as an attached file, a v-card, HTML formatting)  *
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*    Mail Lists at theporch.com only accept PLAIN TEXT    *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

--------------010409020908040100050309--

-----------------------------
Message-ID: <46E1B5A8.7090106@sbcglobal.net>
Date: Fri, 07 Sep 2007 13:33:44 -0700
From: Jack Antonio <scr287@sbcglobal.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Military Radio Collectors Association <mrca@mailman.qth.net>,
 milsurplus <milsurplus@mailman.qth.net>,
 Boatanchors <boatanchors@theporch.com>
Subject: Re: [Milsurplus] ACR-5 Mobile
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

There are 12V dynamotors that will fit on the receivers with no mods, but then there is the issue of filaments and all the relays in the receiver rack and modulator. AFAIK there is no 12V dynamotor that will be a plug and play equivalent for the modulator.
(Although I suppose you could mount the 12V dynamotor for the BC-604/684 on a DM-33 or DY-? base). I have heard stories about the relays being rewound with the next size larger wire, the antenna relays have two coils, which could be rewired to work on 12V, so there are ways to convert the set to 12V, just depends on how much alteration you wanted to do.

There was some mention on the web about a police department that converted SCR-274Ns to 12V(in New Zealand, IIRC), but no technical details.

My solution would be to try one of the newer solid state 12V to 120AC inverters and use a regular 28VDC 20A power supply. Leaving the radio itself in stock configuration.

As far as power out goes, on CW I've always been able to get at least 25W out of a stock transmitter(using the stock dynamotor), but on AM the screen voltage is lowered, which brings AM power down to 15 watts or so.  I can see why this was done on the SCR-274N with its screen modulation, but I guess when the AN/ARC-5 was being designed, higher AM power was just not a requirement. Thinking about it, these were short range sets, 15 watts may have even been the maximum power the Navy wanted.

Jack

Jack Antonio WA7DIA
scr287@sbcglobal.net

Al Klase wrote:
> Troops,
>
> I'm starting to contemplate taking a stock AN/ARC-5 mobile so people
> can see and hear it.  This would be a single transmitter and receiver,
> probably on 75 meters, plus an MD-7 modulator, RE-2 antenna relay, and
> control boxes as needed.  I have all of above, but need a single
> transmitter rack and mount, MT-68/69.
>
> Does anyone know the actual output of the TX?  Manual sez 15 watts
> carrier, but I suspect a pair of 1625's with 550 on the plates should
> do at least twice that.
>
> Also, there the issue of primary power.  I'm looking for a good way to
> get 28 volts at about 10 amps from 14 volts with enough reserve to
> spin up the TX dyno.  I don't suppose anyone has 12/14 volt dynomoters
> for MD-7 and RX lying around?
>
> Any help or suggestions appreciated.
>
> Regards,
> Al
>
> _______________________________________________________________
> Milsurplus mailing list
> Home: http://mailman.qth.net/mailman/listinfo/milsurplus
> Help: http://mailman.qth.net/mmfaq.htm
> Post: mailto:Milsurplus@mailman.qth.net
>

------------------------------
Message-ID: <000801c7f191$33fd03c0$6401a8c0@boudreaux>
From: "David Stinson" <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ARC-5 Mobile
Date: Fri, 7 Sep 2007 15:53:51 -0500
MIME-Version: 1.0
Content-Type: text/plain;
     format=flowed;

charset="iso-8859-1";
reply-type=response
Content-Transfer-Encoding: 7bit

The toughest part of running the set "for real" at 12 volts is getting the
relays to pull in.  They will not operate reliably at 12 volts.
Amalgamated Wireless Australia (AWA) modified a large batch
of the sets for 12 volts (one of our great Australian members sent me some
wonderful paperwork on the mods, for which I am very grateful).
I agree that it will be a lot easier to run the radios off 24 volts.
If you're going to use a power supply with 20-30 amps capacity,
you're going to need a "starter capacitor" on the power buss.
If you don't use one, the transmitter dyno is going to crowbar
your supply if protected or zap your pass transistors if not.
You can buy two of those 1.0 or 1.5 farad, 20 volt caps
with which the car audio fools are destroying their hearing
and put them in series across the buss.  You can get them
through the E-place for around $30-$40 each.
73 Dave S.

------------------------------
Subject: Two RF amp radios
Date: Fri, 7 Sep 2007 15:05:51 -0600
From: Jsehring <jsehring@siouxvalley.net>
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: quoted-printable
Message-Id: <20070907210544.3376846B760@filter1.e-filtering.net>

Yes, 2 RF amps will give better image rejection, especially  important abov=
e about 14 MHz when using 455 kHz IF's=2E  But then you need a more expensi=
ve 4-gang vari cap=2E  And you need to track an extra stage=2E

However, in my non-exhaustive experience, radios with 2 RF amps tend to ove=
rload considerably more easily than those (typically later) radios with 1 R=
F stage=2E

By the middle 1950's, 2 RF stage radios were disappearing quickly, for exam=
ple Halli SX-28/-42/-88, and Super Pro=2E  They were being replaced by radi=
os with 1 RF stage (but usually double IF conversion), e=2Eg=2E Halli S-76/=
SX-96, -100, 101, -115=2E  A 6CB6 and later a 6DC6, was used as the RF amp=
=2E  The latter was esp=2E designed to reduce cross modulation=2E  Collins =
used it in the S-Line receivers=2E

Somewhere along the way, the great god  Sensitivity was being replaced by t=
he more useful Strong-Signal Performance=2E  And Byron Goodman knew this in=

 1957=2E

It is curious to me though that even by the time of the Collins 75A4 (mid 5=
0's), this redio was still was not up to snuff in the strong signal departm=
ent as there were a number of articles published on how to improve it with =
various 1st mixer mods=2E

By 1963, Bill Squires was working on this very problem in his "A New Approa=
ch to Receiver Front-End Design" (QST Sept=2E 1963)=2E

He wrote, "Current receivers, having two or three stages of conversion plus=
 one (or two) RF stages before any _appreciable selectivity_, perform very =
poorly under exactly those condition that are most important, when the desi=
red signal is weak and the undesired is strong=2E"

He re-states Goodman's principles:  "1)  As little gain as possible before =
taking full selectivity and 2) Superb linearity in any stage preceeding sel=
ectivity=2E"  And, "But RF stages are simply an apology for poor mixer perf=
ormance=2E=2E=2E"=2E

His approach uses a 7360 beam deflection mixer (the tube was I recall origi=
nally developed for TV color demodulator service)=2E  He notes, "Since the =
tube operates (as far as input signals are concerned) much as a Class A amp=
lifier followed by a good switch, its cross modulation behavior is superb=
=2E"

He notes that the 7360's calculated shot-noise resistance is only 1500 ohms=
, giving a noise figure of 5=2E5 dB at 30 MHz which leads to 0=2E4 uV sensi=
tivity for 10 dB (S+N)/N ratio=2E  Yes, this is very adequate for 10 m, les=
s than the typical cosmic noise there=2E  He says, "Goodby RF stage!"=2E

Anybody have any experience with the Squire-Sanders receivers?  Was it the =
SS-1?

I am dismayed to note that I have lost my copy of Goodman's article, "What'=
s Wrong with our Present Receivers", QST Jan=2E 1957=2E  Could someone scan=
 & email me a copy?  Muchas gracias!

--John WB0EQ/VE6

--John WB0EQ/VE6

------------------------------
From: WA5CAB@cs.com
Message-ID: <c3b.1bc12ede.34131af5@cs.com>
Date: Fri, 7 Sep 2007 17:21:57 EDT
Subject: Re: [Milsurplus] ACR-5 Mobile

To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_c3b.1bc12ede.34131af5_boundary"

--part1_c3b.1bc12ede.34131af5_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Al,

If I had a vote (which I don't), of all of the options mentioned I'd go with the 14-28 converter floating across a small 24 volt battery.  Advantage over the capacitors Dave mentioned (which would be my 2nd choice) is that you could run the receiver a long time and the transmitter a short time without the engine running and without risking finding yourself stranded with a dead vehicle battery.  And cost would be substantially the same.  If you mod all of the units you wouldn't be demonstrating a "real" military radio set.

Anyway, to the parts you mentioned, I have one decent condition MT-69/ARC-5 single transmitter rack.  Paint is pealing off of the box rear cover but the rest of it just has the usual minor chips.  $50 plus shipping.

Robert Downs - Houston
<http://www.wa5cab.com> (Web Store)
MVPA 9480
<wa5cab@cs.com> (Primary email)
<wa5cab@comcast.net> (Backup email)

--part1_c3b.1bc12ede.34131af5_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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*         ---REMAINDER OF MESSAGE TRUNCATED---            *
*     This post contains a forbidden message format       *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT    *
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```

--part1_c3b.1bc12ede.34131af5_boundary--

------------------------------
From: WA5CAB@cs.com

Message-ID: <d0d.193185bd.34131f43@cs.com>
Date: Fri, 7 Sep 2007 17:40:19 EDT
Subject: Re: Two RF amp radios
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_d0d.193185bd.34131f43_boundary"

--part1_d0d.193185bd.34131f43_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

The overload problem is certainly true of a lot of the late 30's and 40's sets. A BC-779 goes bananas when you key a BC-610 beside it. However, the same isn't true of the RBB/RBC. The make good keying monitors for the same BC-610. And you can hear the other station thru your keying if he tries to break. I never looked at the respective circuits to try to figure out why this was true.

In a message dated 9/7/2007 4:07:02 PM Central Daylight Time, jsehring@siouxvalley.net writes:
> Yes, 2 RF amps will give better image rejection, especially important
> above about 14 MHz when using 455 kHz IF's. But then you need a more expensive
> 4-gang vari cap. And you need to track an extra stage.
>
> However, in my non-exhaustive experience, radios with 2 RF amps tend to
> overload considerably more easily than those (typically later) radios with 1 RF
> stage.

Robert Downs - Houston
<http://www.wa5cab.com> (Web Store)
MVPA 9480
<wa5cab@cs.com> (Primary email)
<wa5cab@comcast.net> (Backup email)

--part1_d0d.193185bd.34131f43_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

--part1_d0d.193185bd.34131f43_boundary--

------------------------------
Message-ID: <46E1CD9A.1060605@ar88.net>
Date: Fri, 07 Sep 2007 18:15:54 -0400
From: Al Klase <al@ar88.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Military Radio Collectors Association <mrca@mailman.qth.net>,
 Boatanchors <boatanchors@theporch.com>,
 Military Radio Collectors Association <mrca@mailman.qth.net>,
 milsurplus <milsurplus@mailman.qth.net>
Subject: Re: [Milsurplus] ACR-5 Mobile
Content-Type: multipart/mixed;
 boundary="------------060505010308070200020506"

This is a multi-part message in MIME format.
--------------060505010308070200020506
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Guys,

Thanks to everyone who chipped in with suggestions.  I think I'll pursue
this general path.

73,
Al

J Forster wrote:
> It would seem to me to be pretty easy to get a 12 to 24 VDC converter and put it
> in a box with a pair of 12 V 8 AH gel cells for dyno starting. After all, it's
> not likely that you are going to use this thing 24/7/365 for 10 years with your
> life depending on it.
>
> As to converting it for 12 V operation, please don't. The sets no longer grow on
> trees.
>
> Best,
> -John
>
>
>
> J

--

Al Klase - N3FRQ
Flemington, NJ
http://www.skywaves.ar88.net/

--------------060505010308070200020506
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

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--------------060505010308070200020506--

------------------------------
Message-ID: <007d01c7f1b0$b40f7b00$0202a8c0@Belkin>
From: "Brian A Clarke" <brianclarke01@optusnet.com.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: [Milsurplus] ARC-5 Mobile
Date: Sat, 8 Sep 2007 10:39:08 +1000
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Could someone please explain just what 24/7/365 means? Coming from someone who claims to have 47 electronics degrees, it does seem a bit odd.

All this talk of using capacitors or small batteries for Tx dynamotor starting - you should look in the original manuals where, AFAIR it says there should be 120 A starting current available. I wonder how often you could start on 8 Ah batteries. Once? Gel cells don't have the overload capability of flooded cells.

73 de Brian, VK2GCE
>
> J Forster wrote:
> > It would seem to me to be pretty easy to get a 12 to 24 VDC converter
and put it
> > in a box with a pair of 12 V 8 AH gel cells for dyno starting. After

all, it's
> > not likely that you are going to use this thing 24/7/365 for 10 years
with your
> > life depending on it.

------------------------------
Message-ID: <006f01c7f1b5$405b0530$020360cf@Laptop>
From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ACR-5 Mobile
Date: Fri, 7 Sep 2007 21:11:55 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The arc-5 xmtr was designed to need very little manipulation to operate.
The 1625's are lightly linked to the vfo tube and antenna so it tracks the
frequency dial with minimal FM'ing.
That is why the low power for two 1625's.

A good ham mod at minimum required a vfo buffer tube and more turns on the
PA tank link to get higher power.
My first novice xmtr was a 2.1-3 modified xtal control for 80/40m. I
remember paying only a few bucks for a new one in the box from radio row in
Manhattan.
If you are going to use the xmtr as is, 15 watts is good and correct these
days.

bob...w2ami  x  wn2ami  1962

----- Original Message -----
From: "Al Klase" <al@ar88.net>
Subject: ACR-5 Mobile

Troops,

I'm starting to contemplate taking a stock AN/ARC-5 mobile so people can
see and hear it........................................
Does anyone know the actual output of the TX?  Manual sez 15 watts
carrier, but I suspect a pair of 1625's with 550 on the plates should do
at least twice that.

Al Klase - N3FRQ
Flemington, NJ
http://www.skywaves.ar88.net/

```
------------------------------
Message-ID: <46E1FAFD.5050605@ar88.net>
Date: Fri, 07 Sep 2007 21:29:33 -0400
From: Al Klase <al@ar88.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: [Milsurplus] ARC-5 Mobile
Content-Type: multipart/mixed;
 boundary="------------050803000309010906050701"

This is a multi-part message in MIME format.
--------------050803000309010906050701
Content-Type: text/plain; charset=ISO-8859-1; format=flowed
Content-Transfer-Encoding: 7bit

Brian,

Not in my spoken vocabulary either, but 24 hours a day, 7 days a week,
365 days a year = continuously.  Why it's not 24/7/52 I'll never tell.

I don't know about 8 AH batteries, but some 17 AH units I've been
messing with start a GRC-9 dyno just fine.  We're talking about float
charging the batteries so you just need the brief surge to get things
moving.

Al

Regards,
Al

Brian A Clarke wrote:
> Could someone please explain just what 24/7/365 means? Coming
> from someone who claims to have 47 electronics degrees, it does
> seem a bit odd.
>
> All this talk of using capacitors or small batteries for Tx dynamotor
> starting - you should look in the original manuals where, AFAIR it
> says there should be 120 A starting current available. I wonder how
> often you could start on 8 Ah batteries. Once? Gel cells don't have
> the overload capability of flooded cells.
>
> 73 de Brian, VK2GCE
>
>> J Forster wrote:
>>
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```

```
> and put it
>
>>> in a box with a pair of 12 V 8 AH gel cells for dyno starting. After
>>>
> all, it's
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>>> not likely that you are going to use this thing 24/7/365 for 10 years
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> with your
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>>> life depending on it.
>>>
>
>
>

--
Al Klase - N3FRQ
Flemington, NJ
http://www.skywaves.ar88.net/



--------------050803000309010906050701
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---             *
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--------------050803000309010906050701--

------------------------------
Message-ID: <019001c7f1be$0ca57a00$0202a8c0@Belkin>
From: "Brian A Clarke" <brianclarke01@optusnet.com.au>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: [Milsurplus] ARC-5 Mobile
Date: Sat, 8 Sep 2007 12:08:08 +1000
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Gel cells are designed with very thin plates to compensate for the reduced ion mobility that occurs in a gelled electrolyte - compared with a flooded cell. When there is a 120 A surge in a gel cell, those thin plates buckle - and it's a bugger of a job to straighten them. Do it again, and the buckles get belted together leading to bulging cells = death to the wallet = permanent.

Even the data sheet I have here in front of me for a 17 Ah battery does not go beyond 65 A short-term load because of the temperature rise and imminent plate buckling.

73 de Brian, VK2GCE.

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Mime-Version: 1.0
Message-Id: <p06240802c307b0f70a48@[192.168.1.2]>
Date: Fri, 7 Sep 2007 18:53:54 -0700
To: Old Tube Radios <boatanchors@theporch.com>
From: Scott Robinson <spr@earthlink.net>
Subject: Re: [Milsurplus] ARC-5 Mobile
Content-Type: text/plain; charset="us-ascii" ; format="flowed"

At 10:39 AM +1000 9/8/07, Brian A Clarke wrote:
>Could someone please explain just what 24/7/365 means? Coming
>from someone who claims to have 47 electronics degrees, it does
>seem a bit odd.

That would be 24 hours a day, 7 days a week, 365 days a year. No mention is made of extra the 1/4 day...

Peasce,

Scott

------------------------------

Message-ID: <002601c7f1c7$7be3a190$6401a8c0@boudreaux>
From: "David Stinson" <arc5@ix.netcom.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: ARC-5 Mobile
Date: Fri, 7 Sep 2007 22:22:24 -0500
MIME-Version: 1.0
Content-Type: text/plain;
format=flowed;
charset="iso-8859-1";
reply-type=original
Content-Transfer-Encoding: 7bit

To each his own, of course.
I used batteries to take the surge from my SCR-287 back in 1996,
but I won't be doing that again.

I don't like having batteries sitting around in my shack,
float charging.  Big batteries are nasty creatures.
They, with their charger, take up lots of room.
They leak (even the "leakproof" ones) and vent evil gases.
They corrode, unless you coat the poles with foul brown goop,
more of which gets on you than on your batteries.
They eat holes in your nice new work clothes
(yes; even the "leakproof" kind).  If you drop a
tool on them, you get to enjoy flash burns from
vaporized steel and lead, which tastes so yummy as
you inhale it, just before you get showered with scalding acid.
Sometimes they blow up for no visible reason at all-
I think they do it out of boredom or spite.
Ever had to douche-down the insides of a generator building
(including the generator and transfer panels, etc.) with
alkaline water, trying to save them from their fresh
coating of battery acid?  I have... it sucks.
And they wear out every couple-or-four years,
even just float charging, so I  have to buy another expensive set
and then have the butt-ache of disposing of the old corpses.

My starter caps keep on working- even after ten years of storage.
Ain't many batteries can say that.  Most of the Chinese car
batteries you get these days are lucky to store for ten months.
I don't abuse them, so they haven't leaked.
They haven't blown up.  And if they did, the worst I might get
is showered with smelly confetti.
They don't vent gases that can cause the roof of my shack
to suddenly (and momentarily) defy gravity.
They discharge when I turn off the juice, so when I drop a wrench,
I don't have to breathe super-heated lead vapor
or grow a new layer of skin.
They don't need brown goop.
They don't eat my clothes.
And they fit in less space than one small battery charger.
Everyone got their "thing," but for me- gimme the caps.

73 D.S.

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From: WA5CAB@cs.com
Message-ID: <bdb.1add281e.34137369@cs.com>
Date: Fri, 7 Sep 2007 23:39:21 EDT
Subject: Re: [Milsurplus] ARC-5 Mobile
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_bdb.1add281e.34137369_boundary"

--part1_bdb.1add281e.34137369_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Everyone knows what 24/7/365 means.

The starting surge current of most 12 and 24 VDC dynamotors and inverters is between 3X and 5X the FLA. I have at least the final revisiona of all the manuals published on all of the military nomenclatured Command Sets from the RAT through AN/ARC-5X. None mention any requirement for a 120 A supply. The FLA of the DY-8/ARC-5 is 7 A. An 8 AH lead-acid battery will easily start a DY-8.

To get back to the earlier subject of expected transmitter power output, AN 16-30ARC5-2 says in part:

"The power output of each of the transmitters, under optimum antenna loading conditions, exceeds 40 watts CW, and 15 wattts voice carrier, for 28 volts input to the equipment." It goes on to discuss power output reduction when using short built-in antennas on some aircraft.

In a message dated 9/7/2007 7:44:06 PM Central Daylight Time,
brianclarke01@optusnet.com.au writes:
> Could someone please explain just what 24/7/365 means? Coming
> from someone who claims to have 47 electronics degrees, it does
> seem a bit odd.
>
> All this talk of using capacitors or small batteries for Tx dynamotor
> starting - you should look in the original manuals where, AFAIR it
> says there should be 120 A starting current available. I wonder how
> often you could start on 8 Ah batteries. Once? Gel cells don't have
> the overload capability of flooded cells.
>

Robert Downs - Houston
<http://www.wa5cab.com> (Web Store)
MVPA 9480
<wa5cab@cs.com> (Primary email)
<wa5cab@comcast.net> (Backup email)

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--part1_bdb.1add281e.34137369_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---             *
*     This post contains a forbidden message format        *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT     *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *

--part1_bdb.1add281e.34137369_boundary--

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Message-ID: <003701c7f1cb$213ba2c0$5c9e480c@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Two RF amp radios
Date: Fri, 7 Sep 2007 20:48:28 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

> The overload problem is certainly true of a lot of the late 30's and 40's
> sets.  A BC-779 goes bananas when you key a BC-610 beside it.  However, the same
> isn't true of the RBB/RBC.  The make good keying monitors for the same BC-610.
>  And you can hear the other station thru your keying if he tries to break. I
> never looked at the respective circuits to try to figure out why this was
> true.

This is speculation on my part, Bob:  "Overload" that causes crossmodulation makes a receiver generally useless until the stronger signal(s) go away.  In the case of very strong RF from a nearby transmitter a receiver will block. Proper blocking recovery is then the important criteria.  I'm guessing if the AVC system is designed for fast blocking recovery then barring front end burn-out the receiver is ready for break-in operation.  Comments?

Arden Allen
KB6NAX

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End of BOATANCHORS Digest 4088
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